

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/807, 755A  
Source: TFW0  
Date Processed by STIC: 11/09/2006

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 11/09/2006

PATENT APPLICATION: US/10/807,755A

TIME: 09:09:26

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\11092006\J807755A.raw

4 <110> APPLICANT: Robbins, Paul D.  
 5 Mai, Jeffrey C.  
 7 <120> TITLE OF INVENTION: A COMPACT SYNTHETIC EXPRESSION VECTOR COMPRISING DOUBLE-  
 STRANDED DNA  
 8 MOLECULES AND METHODS OF USE THEREOF  
 10 <130> FILE REFERENCE: AP35518 (072396.0263)  
 12 <140> CURRENT APPLICATION NUMBER: 10/807,755A  
 13 <141> CURRENT FILING DATE: 2004-03-24  
 15 <150> PRIOR APPLICATION NUMBER: 60/456,989  
 16 <151> PRIOR FILING DATE: 2003-03-24  
 18 <160> NUMBER OF SEQ ID NOS: 52  
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 51  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Artificial Sequence  
 27 <220> FEATURE:  
 28 <223> OTHER INFORMATION: synthetic oligonucleotide  
 30 <400> SEQUENCE: 1  
 31 gcaagcugac ccugaaguuc uucaagagag aacuucaggg ucagcuugcu u 51  
 33 <210> SEQ ID NO: 2  
 34 <211> LENGTH: 22  
 35 <212> TYPE: DNA  
 36 <213> ORGANISM: Artificial Sequence  
 38 <220> FEATURE:  
 39 <223> OTHER INFORMATION: synthetic oligonucleotide  
 41 <400> SEQUENCE: 2  
 42 gcaagcugac ccugaaguuc uu 22  
 44 <210> SEQ ID NO: 3  
 45 <211> LENGTH: 22  
 46 <212> TYPE: DNA  
 47 <213> ORGANISM: Artificial Sequence  
 49 <220> FEATURE:  
 50 <223> OTHER INFORMATION: synthetic oligonucleotide  
 52 <400> SEQUENCE: 3  
 53 gaacuucagg gucagcuugc uu 22  
 55 <210> SEQ ID NO: 4  
 56 <211> LENGTH: 156  
 57 <212> TYPE: DNA  
 58 <213> ORGANISM: Artificial Sequence  
 60 <220> FEATURE:  
 61 <223> OTHER INFORMATION: synthetic oligonucleotide  
 63 <400> SEQUENCE: 4  
 64 aatatttgca tgtcgctatg tgttctggga aatcaccata aacgtgaaat gtctttggat 60

Cp3-6.7)

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```

65 ttgggaatct tataagttct gtatgagacc acagatcccc gcaagctgac cctgaagttc 120
66 ttcaagagag aacttcaggg tcagcttgct ttttgg 156
68 <210> SEQ ID NO: 5
69 <211> LENGTH: 12
70 <212> TYPE: DNA
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: synthetic oligonucleotide
76 <400> SEQUENCE: 5
77 gtggcgcagc gg 12
79 <210> SEQ ID NO: 6
80 <211> LENGTH: 11
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: synthetic oligonucleotide
87 <400> SEQUENCE: 6
88 ggatcgaaac c 11
90 <210> SEQ ID NO: 7
91 <211> LENGTH: 28
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: synthetic oligonucleotide
98 <400> SEQUENCE: 7
99 tttttttata tatacaggag gccgaggc 28
101 <210> SEQ ID NO: 8
102 <211> LENGTH: 16
103 <212> TYPE: PRT
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: synthetic polypeptide
109 <400> SEQUENCE: 8
110 Cys Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser
111 1 5 10 15
114 <210> SEQ ID NO: 9
115 <211> LENGTH: 29
116 <212> TYPE: PRT
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: synthetic polypeptide
122 <400> SEQUENCE: 9
123 Cys Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser
124 1 5 10 15
125 Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser
126 20 25
129 <210> SEQ ID NO: 10
130 <211> LENGTH: 15
131 <212> TYPE: DNA

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```

132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: synthetic oligonucleotide
137 <400> SEQUENCE: 10
138 aggtcagcat gacct                               15
140 <210> SEQ ID NO: 11
141 <211> LENGTH: 15
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: synthetic oligonucleotide
148 <400> SEQUENCE: 11
149 aggtcatatt gacct                               15
151 <210> SEQ ID NO: 12
152 <211> LENGTH: 20
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: synthetic oligonucleotide
159 <400> SEQUENCE: 12
160 gtgcttgctt tggtagcaca                          20
162 <210> SEQ ID NO: 13
163 <211> LENGTH: 14
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: synthetic oligonucleotide
170 <400> SEQUENCE: 13
171 aagattagca cagt                                14
173 <210> SEQ ID NO: 14
174 <211> LENGTH: 62
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: synthetic oligonucleotide
181 <400> SEQUENCE: 14
182 gaatcttata agttctgtat gagaccacag atccccgtgc ttgctttggt agcacaagca 60
183 tt                                              62
185 <210> SEQ ID NO: 15
186 <211> LENGTH: 59
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: synthetic oligonucleotide
193 <400> SEQUENCE: 15
194 tttttcgata acatcttcga ccacctgaca cgattagaag gtggctcggag atgttgctcg 59
196 <210> SEQ ID NO: 16
197 <211> LENGTH: 82
198 <212> TYPE: DNA

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```

199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: synthetic oligonucleotide
204 <400> SEQUENCE: 16
205 gugcuugcuu ugguagcaca agcauugcug uuguagaggc ugguggaaga uuagcacagu 60
206 ccaccagcuu cuacaauagc uu 82
208 <210> SEQ ID NO: 17
209 <211> LENGTH: 22
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: synthetic oligonucleotide
216 <400> SEQUENCE: 17
217 gcuguuguag aggcuggugg aa 22
219 <210> SEQ ID NO: 18
220 <211> LENGTH: 22
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: synthetic oligonucleotide
227 <400> SEQUENCE: 18
228 ccaccagcuu cuacaauagc uu 22
230 <210> SEQ ID NO: 19
231 <211> LENGTH: 36
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: synthetic oligonucleotide
238 <400> SEQUENCE: 19
239 cctcaaattg tctccaattt tcctttggca aattcc 36
241 <210> SEQ ID NO: 20
242 <211> LENGTH: 100
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: synthetic oligonucleotide
249 <400> SEQUENCE: 20
250 aatatttgca tgtcgctatg tggtctggga aatcaccata aacgtgaaat gtctttggat 60
251 ttgggaatct tataagttct gtatgagacc acagatcccc 100
253 <210> SEQ ID NO: 21
254 <211> LENGTH: 100
255 <212> TYPE: DNA
256 <213> ORGANISM: Artificial Sequence
258 <220> FEATURE:
259 <223> OTHER INFORMATION: synthetic oligonucleotide
261 <400> SEQUENCE: 21
262 aatatttgca tgtcgctatg tggtctggga aatcaccata aacgtgaaat gtctttggat 60
263 ttgggaatct tataagttct gtatgagacc actctttccc 100
265 <210> SEQ ID NO: 22

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## RAW SEQUENCE LISTING

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```

266 <211> LENGTH: 68
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: synthetic oligonucleotide
273 <400> SEQUENCE: 22
274 tcaccataaa cgtgaaatgt ctttggattt ggaatctta taagttctgt atgagaccac 60
275 tctttccc 68
277 <210> SEQ ID NO: 23
278 <211> LENGTH: 135
279 <212> TYPE: DNA
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <221> NAME/KEY: misc_feature
284 <222> LOCATION: (71)...(89)
285 <223> OTHER INFORMATION: n = A,T,C or G
287 <221> NAME/KEY: misc_feature
288 <222> LOCATION: (93)...(111)
289 <223> OTHER INFORMATION: n = A,T,C or G
291 <223> OTHER INFORMATION: synthetic oligonucleotide
W--> 293 <400> 23
294 caggactagt cttttaggtc aaaaagaaga agctttgtaa ccgttggaac acgtagtgtg 60
W--> 295 gtggttacac nnnnnnnnnn nnnnnnnnna tgnnnnnnnn nnnnnnnnnn ntctggttcg 120
296 aaaccgggcg ttttt 135
298 <210> SEQ ID NO: 24
299 <211> LENGTH: 190
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <221> NAME/KEY: misc_feature
305 <222> LOCATION: (75)...(93)
306 <223> OTHER INFORMATION: n = A,T,C or G
308 <221> NAME/KEY: misc_feature
309 <222> LOCATION: (97)...(115)
310 <223> OTHER INFORMATION: n = A,T,C or G
312 <223> OTHER INFORMATION: synthetic oligonucleotide
W--> 314 <400> 24
315 aattcaggac tagtctttta ggtcaaaaag aagaagcttt gtaaccgttg gaaaacgtag 60
W--> 316 tgtagtgggt acacnnnnnn nnnnnnnnnn nnnatgnnnn nnnnnnnnnn nnnnttcgg 120
317 ttcgaaaccg ggcgttttta aagagagtcg cttttttttc tctgctaata tctgtttttg 180
318 agtattttca 190
320 <210> SEQ ID NO: 25
321 <211> LENGTH: 135
322 <212> TYPE: DNA
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <221> NAME/KEY: misc_feature
327 <222> LOCATION: (71)...(89)
328 <223> OTHER INFORMATION: n = A,T,C or G

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RAW SEQUENCE LISTING ERROR SUMMARY  
 PATENT APPLICATION: US/10/807,755A

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Input Set : A:\PTO.RJ.txt

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:23; N Pos. ~~71~~, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, ~~89~~, 93  
 Seq#:23; N Pos. 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109  
 Seq#:23; N Pos. 110, ~~111~~  
 Seq#:24; N Pos. ~~75~~, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, ~~93~~, 97  
 Seq#:24; N Pos. 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112  
 Seq#:24; N Pos. ~~113~~, ~~114~~, ~~115~~  
 Seq#:25; N Pos. ~~71~~, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, ~~89~~  
 Seq#:25; N Pos. 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115  
 Seq#:25; N Pos. 116, 117, 118, 119  
 Seq#:26; N Pos. 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89  
 Seq#:26; N Pos. 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115.  
 Seq#:26; N Pos. 116, 117, 118, 119  
 Seq#:27; N Pos. 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 95  
 Seq#:27; N Pos. 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111  
 Seq#:27; N Pos. 112, 113  
 Seq#:28; N Pos. 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 99  
 Seq#:28; N Pos. 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114  
 Seq#:28; N Pos. 115, 116, 117  
 Seq#:29; N Pos. 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97  
 Seq#:29; N Pos. 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126  
 Seq#:29; N Pos. 127, 128, 129, 130  
 Seq#:30; N Pos. 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109  
 Seq#:30; N Pos. 110, 111, 112, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138  
 Seq#:30; N Pos. 139, 140, 141, 142, 143, 144, 145  
 Seq#:31; N Pos. 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103  
 Seq#:31; N Pos. 104, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128  
 Seq#:31; N Pos. 129, 130, 131, 132, 133  
 Seq#:32; N Pos. 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120  
 Seq#:32; N Pos. 121, 122, 123, 124, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145  
 Seq#:32; N Pos. 146, 147, 148, 149, 150, 151, 152, 153  
 Seq#:33; N Pos. 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101  
 Seq#:33; N Pos. 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126  
 Seq#:33; N Pos. 127, 128, 129, 130  
 Seq#:34; N Pos. 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115  
 Seq#:34; N Pos. 116, 117, 118, 119, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140  
 Seq#:34; N Pos. 141, 142, 143, 144, 145, 146, 147, 148  
 Seq#:47; N Pos. 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120  
 Seq#:47; N Pos. 121, 122, 123, 124, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145  
 Seq#:47; N Pos. 146, 147, 148, 149, 150, 151, 152, 153  
 Seq#:48; N Pos. 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312  
 Seq#:48; N Pos. 313, 314, 315, 316, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337  
 Seq#:48; N Pos. 338, 339, 340, 341, 342, 343, 344, 345  
 Seq#:49; N Pos. 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115  
 Seq#:49; N Pos. 116, 117, 118, 119, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140

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Seq#:49; N Pos. 141,142,143,144,145,146,147,148  
Seq#:50; N Pos. 98,99,100,101,102,103,104,105,106,107,108,109,110,111,112  
Seq#:50; N Pos. 113,114,115,116  
Seq#:51; N Pos. 21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,51  
Seq#:51; N Pos. 52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69  
Seq#:52; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,60  
Seq#:52; N Pos. 61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78



## VERIFICATION SUMMARY

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Input Set : A:\PTO.RJ.txt

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L:293 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:23  
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:60  
L:314 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24  
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:60  
L:336 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:25  
L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:60  
L:357 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:26  
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:60  
L:378 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:27  
L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:60  
L:399 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:28  
L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:60  
L:421 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:29  
L:423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:60  
M:341 Repeated in SeqNo=29  
L:442 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:30  
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:60  
M:341 Repeated in SeqNo=30  
L:463 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:31  
L:465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:60  
M:341 Repeated in SeqNo=31  
L:484 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32  
L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:60  
M:341 Repeated in SeqNo=32  
L:505 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:33  
L:507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:60  
M:341 Repeated in SeqNo=33  
L:526 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:34  
L:528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:60  
M:341 Repeated in SeqNo=34  
L:685 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47  
L:687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:60  
M:341 Repeated in SeqNo=47  
L:706 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:48  
L:711 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:240  
M:341 Repeated in SeqNo=48  
L:730 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:49  
L:732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:60  
M:341 Repeated in SeqNo=49  
L:747 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:50  
L:749 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:60  
L:766 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:51  
L:767 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0  
M:341 Repeated in SeqNo=51  
L:784 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:52  
L:785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0  
M:341 Repeated in SeqNo=52